

WHAT IS CLAIMED IS:

1. A removable magnetic recording medium which is a removable disc medium for use in a magnetic recording system, wherein the removable disc medium is encased in a cartridge, a diameter of the disc medium is from 20 mm to 50 mm, and the disc medium comprises a flexible polymer support and a recording layer comprising a ferromagnetic metal alloy containing cobalt.

2. The removable magnetic recording medium according to claim 1, wherein the recording layer comprises a nonmagnetic oxide and a ferromagnetic metal alloy containing cobalt.

3. The removable magnetic recording medium according to claim 1, wherein the ferromagnetic metal alloy comprises one of combinations selected from Co-Pt, Co-Cr, Co-Pt-Cr, Co-Pt-Cr-Ta and Co-Pt-Cr-B.

4. The removable magnetic recording medium according to claim 2, wherein the nonmagnetic oxide is  $\text{SiO}_2$ .

5. The removable magnetic recording medium according to claim 1, wherein the recording layer has a thickness of from 10 to 60 nm.

6. The removable magnetic recording medium according

to claim 1, wherein the disc medium further comprises a undercoat layer so that the flexible polymer support, the undercoat layer and the recording layer is in this order.

5           7. The removable magnetic recording medium according to claim 6, a surface of the undercoat layer has 0.1 to 100/ $\mu\text{m}^2$  of projections having a height of from 5 to 60 nm.

          8. The removable magnetic recording medium according to claim 6, a surface of the undercoat layer has 1 to 10/ $\mu\text{m}^2$  of projections having a height of from 5 to 60 nm.

          9. The removable magnetic recording medium according to claim 1, wherein the disc medium further comprises an under layer so that the flexible polymer support, the under layer and the recording layer is in this order, and the under layer comprises Cr, Ru, C or an alloy of Cr with a metal selected from Ti, Si, W, Ta, Zr, Mo and Nb.